

Creel Census - Pend Oreille Lake

F-3-R-2

by

Paul Jeppson

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October, 1953

COMPLETION REPORT  
INVESTIGATIONS PROJECTS

STATE OF IDAHO

PROJECT NO. F 3-R-2      Work Plan No. II      Job No. 1

TITLE OF JOB Creel Census - Pend Oreille Lake

OBJECTIVES :

To determine:

1. The number of fish caught during the 1952 season.
2. The quality of fishing as measured in terms of fish caught per hour.
3. The relative number of resident, non-resident, and commercial fishermen.
4. The total catch and catch per hour of each group (resident, non-resident, and commercial)
5. The type of fishing, bait, and gear.

TECHNIQUES USED:

The creel census was conducted during 1952 with the same sampling plan as adopted for the 1951 study. (For a detailed description of Lake Pend Oreille and an explanation of the scope of the study see the 1951 completion report, entitled Fisheries Investigations of Lake Pend Oreille, Idaho.)

As in 1951 the fishing season was stratified by months and days of the week-for the convenience of censusing and economy of operation. One Saturday, one Sunday and three weekdays were censused in each of the four areas of the lake during each month from April through October. Censusing was discontinued at the end of October with the cessation of kokanee fishing. Prior to April the small amount of fishing which occurred for whitefish did not warrant initiation of the census. Some trout fishing was done during November, however. Census days and order of sampling sections were selected by a random process. Creel census personnel were stationed at resorts and other landings in the areas shown on the accompanying map. Proportionate adjustments were made to the final daily tabulations to allow for fishermen who were known to have fished but were not interviewed by creel census personnel or by resort operators.

A new creel census form (See Figure 1) was adopted for the 1952 study. The form is identical to the one used during 1951 except space for recording whether or not the fishermen had fished in the lake previously during 1952, type of fish sought, method of fishing, and type of tackle used were also included. Compilations of the latter group of data are not available at this time. A more simplified form was adopted for use by resort operators (See Figure 2.)

Mr. Daniel R. Embody was retained by the Department of Fish and Game for tabulation and analysis of creel census data.

#### FINDINGS:

A tabulation of days censused and data obtained are recorded in Appendix A. These data constitute random samples of numbers of fishermen, hours of effort, and catch of all species. By applying these data to the entire period of census, estimates were made of total utilization and harvest of kokanee, trout, and whitefish. Estimated catches of warm water fish and non-game species are not available at this time.

Some 58,000 fishermen fished a total of 309,000 hours to obtain approximately 515,000 kokanee, 8,800 trout, and 1,200 whitefish. Total estimated utilization of the fishery and resulting harvest of kokanee, trout, and whitefish are recorded in Table I.

Table I. Total estimated utilization by all fishermen and their harvest of kokanee, trout, and whitefish, Lake Pend Oreille, Idaho, 1952

Month	Fisher- men	Hours	Total Salmonids	Kokanee	Cut- throat	Dolly Varden	Rain- bow	White- fish
April	3,689	19,132	14,379	14,379	0	0	0	836
May	7,607	40,676	128,468	126,979	444	948	97	201
June	11,087	54,847	109,941	107,521	1,779	476	165	84
July	11,357	58,871	81,448	79,405	1,632	274	137	27
August	8,603	45,361	40,445	39,056	1,113	195	81	20
Sept.	8,286	47,330	67,081	66,172	589	273	47	4
October	7,185	41,633	81,929	81,401	293	227	8	0
Total	57,814	308,850	523,691	514,913	5,850	2,393	535	1,172

Resident sport fishermen made up 46 per cent of the total and harvested 36 per cent of the salmonids and whitefish as shown in Table II.

Table II. Total estimated utilization by resident sport fishermen and their harvest of kokanee, trout, and whitefish, Lake Pend Oreille, Idaho, 1952.

Month	Fisher- men	Hours	Total Salmonids	Kokanee	Cut- throat	Dolly Varden	Rain- bow	White- fish
April	2,699	14,044	8,247	8,247	0	0	0	389
May	4,948	24,419	46,731	45,547	366	758	60	172
June	4,853	23,542	44,212	43,134	715	284	79	57
July	5,053	24,847	33,206	32,406	656	70	74	4
August	3,306	15,738	11,915	11,387	409	90	29	20
Sept.	3,178	16,065	19,331	18,966	195	147	23	0
Oct.	2,799	14,884	24,241	23,970	145	126	0	0
Total	26,836	133,539	187,883	183,657	2,486	1,475	265	642

Non-resident sport fishermen made up 52 per cent of the total and harvested 52 per cent of the salmonids and whitefish as shown in Table III.

Table III. Total estimated utilization by Non-resident sport fishermen and their harvest of kokanee, trout, and whitefish, Lake Pend Oreille, Idaho, 1952

Month	Fisher- men	Hours	Total Salmonids	Kokanee	Cut- throat	Dolly Varden	Rain- bow	White- fish
April	761	3,865	855	855	0	0	0	396
May	2,344	13,651	33,124	33,846	78	163	37	5
June	6,126	30,690	62,027	60,692	1,057	192	86	15
July	6,165	34,262	45,594	44,363	972	204	55	23
August	5,198	29,126	26,751	25,890	704	105	52	0
Sept.	5,071	31,029	46,576	46,039	394	119	24	4
Oct.	4,386	26,749	57,688	57,431	148	101	8	0
Totals	30,051	169,372	272,615	268,116	3,353	884	262	443

Commercial fishermen made up two per cent of the total and harvested 12 per cent of the salmonids and whitefish as shown in Table IV.

Table IV. Total estimated utilization by commercial fishermen and their harvest of kokanee, trout, and whitefish, Lake Pend Oreille, Idaho, 1952.

Month	Fisher- men	Hours	Total Salmonids	Kokanee	Cut- throat	Dolly Varden	Rain- bow	White- fish
April	229	1,223	5,277	5,277	0	0	0	51
May	315	2,606	48,613	48,586	0	27	0	24
June	108	615	3,702	3,695	7	0	0	12
July	139	762	2,648	2,636	4	0	8	0
August	99	497	1,779	1,779	0	0	0	0
Sept,	37	236	1,174	1,167	0	7	0	0
Oct.	0	0	0	0	0	0	0	0
Total	927	5,939	63,193	63,140	11	34	8	87

Comparative rates of catch in fish per hour for resident and non-resident sport fishermen and commercial fishermen are shown in Table V.

Table V. Comparative average rates of catch of fishermen in fish per hour, Lake Pend Oreille, Idaho, 1952.

Month	All Fishermen	Resident Sport	Non-resident	Commercial
April	0.8	0.6	0.3	4.4
May	3.2	1.9	2.4	18.7
June	2.0	1.9	2.0	6.0
July	1.4	1.3	1.3	3.5
August	0.9	0.8	0.9	3.6
September	1.4	1.2	1.5	5.0
October	2.0	1.6	2.2	-
Feb. - Oct.	1.7	1.4	1.6	10.7

## ANALYSIS AND RECOMMENDATIONS:

Late-winter fishing for kokanee in Lake Pend Oreille did not materialize as in 1951. Creel census data for the period April through October 1952 were otherwise relatively similar to data obtained during the same period in 1951. Length of the season during which kokanee were available to the fishermen appeared to have an important bearing on the annual harvest. Lake levels and water temperatures during the period of census are recorded in Appendix B. Climatological data for 1951 and 1952 are recorded in Appendix C.

It is recommended that the creel census be continued through succeeding years for as long a period as necessary in order to obtain all possible evidence regarding the average annual harvest of kokanee and trout prior to and following any effects which Albeni Falls and Cabinet Gorge Dams may have upon the reproduction of these species. It is possible that the effect of partial blocking of spawning runs at Cabinet Gorge during 1951 may be exhibited by creel census as early as the 1954 fishing season.

## SUMMARY:

During the period from April to October 1952 some 58,000 fishermen fished about 309,000 hours in Lake Pend Oreille to obtain approximately 515,000 kokanee, 8,800 trout, and 1,200 whitefish. Approximately 36 per cent of the harvest was by resident sport fishermen, 52 per cent by non-resident sport fishermen, and 12 per cent by commercial fishermen. Reduced utilization and harvest during 1952 as compared to 1951 appears to be due principally to the shorter season during which kokanee were available to the fishermen.

## DATA AND REPORTS:

Basic data and reports regarding the 1952 creel census are on file in the office of the Idaho Fish and Game Department, Boise, Idaho, or in the files of the District Fisheries Biologist, Route 1, Sagle, Idaho.

Prepared by:

Paul Jeppson  
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October, 1953

Approved by:

IDAHO FISH AND GAME DEPARTMENT

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APPENDIX I

STATE OF IDAHO

DEPARTMENT OF FISH & GAME

Research Report

PEND OREILLE LAKE CENSUS 1952

D. J. Project 3-R-2

Title: Tabulation of Census Data by Days

Author: Daniel R. Embody, Consulting Statistician

Date: April 1, 1953

## INTRODUCTION

In 1952 as in 1951 an intensive creel census was conducted on Pend Oreille Lake in North Idaho. The Census was sponsored by the Fish and Game Department of the State of Idaho under Federal Aid Project D. J. F 3-R-2 with assistance given by the Washington Water Power Company, the Bonner County Sportsmen's Association, and nearly every resort owner around the lake. The purpose of this report is to summarize the methods and data of the 1952 census.

The writer has been retained as a statistical consultant in this investigation by the Fish and Game Department. Responsibilities of this position involve the planning of field work and the analysis and interpretation of census data. On May 15, 1952, Mr. Tim Vaughan, the field director of the census, left the employ of the Fish and Game Department. During the period May 15 to June 15 the writer was employed jointly by the Fish and Game Department and the Washington Water Power Company to direct field operations, After June 15 Mr. Paul Jeppson, fishery biologist, assumed direction of the census for the remainder of the season. Assisting Mr. Jeppson from June through September was Mr. Mel Lantz, biologist.

## GENERAL PLAN OF THE CENSUS

The census for 1952 was planned to yield data which would be comparable with data collected in 1951 and with data to be collected in 1953 and future years. Sampling techniques were employed which sampled both the lake and the season. The general sampling plan was identical with the one used in 1951 except that a new order and new days were assigned at random.

The lake was subdivided into the same four areas that were used in 1951; namely, (I) Hope-Trestle Creek, (II) Sandpoint, (III) Garfield Bay, and (IV) Bayview. The attached map shows the boundaries of the four areas. It should be noted that the boundary of section I was changed somewhat to exclude any of the west shore of the lake. The map in reference (1) shows that in 1951 some shoreline between Bottle Bay and Garfield Bay was included in the Hope-Trestle Creek section. Since no fishing was reported from this area in 1951 the change has no effect on the comparableness of the data. In future years, however, this shoreline may be used by fishermen and would thus have to be sampled. Including it as part of the Hope-Trestle Creek section would require extra manpower and automobile travel, whereas attached to the Garfield Bay section, this shoreline can be covered by the regular crew with only a modest increase in automobile mileage.

The season was stratified according to calendar months. For each section of the lake one Sunday, one Saturday and Three weekdays were designated each month for counting fish. Considering the four sections and the five days, counting was performed somewhere on the lake during 20 days each month. Standard biometric procedures and tables of random numbers were used in randomizing the days assigned to the census and order of sampling sections.

Although a careful watch was maintained on the lake during February and March, the kokanee were not biting and practically no fishing effort was exerted on the lake. Under these conditions it was judged that the catch was too small to warrant the census for these months. By April 1 the situation had not changed, but it was thought advisable to begin the census in anticipation of increased fishing effort during the month.

By October 31 kokanee fishing had ceased, although trout were being caught regularly. It was decided at that time that the overall catch during November would be too small to warrant the census. Thus on October 31 all field operations for the year were terminated. It is possible that a few hundred trout were missed by the termination, but the comparableness of the data between years was not affected.

#### CENSUS DATA AND ADJUSTMENTS

For 1952 new census forms were originated to overcome some of the difficulties encountered in 1951. The most common complaint was from the cooperating resort owners, who felt that the forms were too complicated. A separate form was set up for resort owners which called for only the most essential data and which could hold the records of over 20 fishermen. A more comprehensive form was developed for use by the men employed by the census. Sample copies of each of these forms are included immediately before the data tables.

On each census day for each area an attempt was made to contact all fishermen as they left the lake. Records were made of all data specified in the blanks, In this report a tabulation of the basic data only will be considered. These items are:

1. Classification of fishermen (resident, non-resident, or commercial)
2. Hours of effort expended (actual hours of fishing)
3. Number and species of salmonids and whitefish caught.

Tabulations and interpretations of the other items of data collected will be given in a later report.

In all census work of this type some fishermen are completely missed. In the opinion of the writer, it is doubtful that the number missed during the season exceeded one per cent. This point, however, is somewhat controversial and undoubtedly will be studied in more detail at a later date.

At times during the season fishermen swarmed ashore in droves, and counts of some catches were missed, although the number of fishermen was known. In all such cases the interviewers were instructed to make a notation on their data sheets of any catches missed so that later adjustments could be made.

Adjustments of the figures for catch and hours of effort where these omissions occurred were made on a simple proportion basis. Of all the fishermen interviewed, the percentages of resident, non-resident and commercial were determined. These percentages were then applied to the total number of fishermen missed to obtain a break-down by classes. Where fractional numbers of fishermen resulted, the fractions were rounded off to the nearest whole number according to standard statistical procedure.



For each classification (resident, non-resident and commercial) the number of hours per fisherman and the number of fish per fisherman by species were calculated for the fishermen interviewed. These ratios were then applied to the appropriate class of fishermen who were missed to estimate the hours and fish not recorded. Again standard statistical procedures for rounding off to nearest whole numbers were used.

In the report for 1951, reference (1), a detailed example is given of the method by which the adjustments were made. For further information concerning the adjustments made to the data, the reader is referred to this earlier report.

#### TABULATION OF CENSUS DATA BY DAYS

In the following pages of this report are given summaries of the adjusted census data by census days. That is, for each census day the totals of all fishermen, hours, and fish are shown according to the classifications described above. Should the reader have any questions as to these data, he is invited to communicate with the author.

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Consulting Statistician  
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Spokane, Washington

#### References:

- (1) Embody, Daniel R. Tabulation of census data by days., Research Report, Pend Oreille Lake Census 1951, dated November 29, 1951.

## 1952 Creel Census

Station \_\_\_\_\_

Weather \_\_\_\_\_

Water Temp. \_\_\_\_\_

[illegible]

IDAHO DEPT. OF FISH AND GAME 1952 CREEL CENSUS  
(Use only ONE Column per Fisherman)

LAKE \_\_\_\_\_

DATE \_\_\_\_\_

SECTION \_\_\_\_\_

WATER TEMP. \_\_\_\_\_

WIND \_\_\_\_\_

CLASSIFY FISHERMEN BY TYPE OF LICENSE

Resident														
Non-Resident														
Commercial														

TOTAL HOURS OF FISHING EFFORT

Hours														
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NUMBER OF FISH CAUGHT

Kokanee Silver														
Cutthroats														
Dolly Varden														
Rainbow														
Whitefish														
Perch														
Crappie														
Bass														
Squawfish														

NUMBER OF PREVIOUS INTERVIEW'S & TRIPS ON LAKE IN 1952

Census Interviews														
Tot. Prev. Trips														

TYPE OF FISH SOUGHT

Kokanee														
Trout														
Other														

METHOD OF FISHING

Trolling														
Still Fishing														
Casting														
Shore														

TACKLE (If more than one, indicate time each)

Multi-Bd. Flasher														
Single Spoon														
Kamloops Tackle														
Maggots or Bait														
Flies														
Plug														

USE ONLY ONE COLUMN PER FISHERMAN

Use reverse side for notes or remarks.

Signature of Interviewer \_\_\_\_\_

LAKE PEND OREILLE CREEL CENSUS  
BAYVIEW  
April, 1952

<u>Fishermen</u>	<u>Sun. April 20</u>	<u>Sat. April 5</u>	<u>April 8</u>	<u>Weekdays April 10</u>	<u>April 18</u>
Resident	111	189	39	2	9
Non-Resident	68	74	5	2	8
Commercial	<u>3</u>	<u>0</u>	<u>11</u>	<u>0</u>	<u>3</u>
Total	182	263	55	4	20

Hours Fished

Resident	633.0	968.4	189.8	8.0	65.0
Non-Resident	354.5	426.5	20.0	8.0	8.0
Commercial	<u>16.0</u>	<u>0</u>	<u>74.2</u>	<u>0.</u>	<u>23.0</u>
Total	1,003.5	1,394.9	284.0	16.0	96.0

Fish Caught

Resident					
Silvers	256	35	199	0	146
Whitefish	3	8	17	0	0
Non-Resident					
Silvers	66	50	22	0	0
Whitefish	0	99	0	0	0
Commercial					
Silvers	31	0	458	0	209
Whitefish	0	0	7	0	0
Total					
Silvers	353	85	679	0	355
Whitefish	3	107	24	0	0

June 25, 1952  
D. R. Embody

LAKE PEND OREILLE CREEL CENSUS  
GARFIELD  
April, 1952

<u>Fishermen</u>	Sun. <u>April 27</u>	Sat. <u>April 26</u>	Weekdays <u>April 11</u> <u>April 22</u>		<u>April 29</u>
Resident	156	34	6	8	4
Non-Resident	15	2	1	0	0
Commercial	<u>5</u>	<u>7</u>	<u>7</u>	<u>0</u>	<u>2</u>
Total	176	43	14	8	6
<u>Hours Fished</u>					
Resident	885.7	147.5	34.0	45.0	18.6
Non-Resident	90.0	12.0	5.0	0	0
Commercial	<u>23.0</u>	<u>21.0</u>	<u>25.0</u>	<u>0</u>	<u>12.0</u>
Total	998.7	180.5	64.0	45.0	30.6
<u>Fish Caught</u>					
Resident					
Silvers	353	8	22	380	0
Sucker	1	0	0	0	0
Non-Resident					
Silvers	41	9	4	0	0
Commercial	3	0	10	0	24
Silvers					
Total					
Silvers	397	17	36	380	24
Sucker	1	0	0	0	0

D. R. Embody  
January 21, 1953

LAKE PEND OREILLE CREEL CENSUS

HOPE

April, 1952

<u>Fishermen</u>	Sun. <u>April 13</u>	Sat. <u>April 12</u>	Weekdays		<u>April 28</u>
			<u>April 9</u>	<u>April 15</u>	
Resident	8	4	No Fishing	2	6
Non-Resident	1	0		0	0
Commercial	<u>0</u>	<u>0</u>		<u>0</u>	<u>0</u>
Total	9	4		2	6
<u>Hours Fished</u>					
Resident	32	20		6	25
Non-Resident	<u>4</u>	<u>0</u>		<u>0</u>	<u>0</u>
Total	36	20		6	25
<u>Fish Caught</u>					
Resident					
Silers	0	0		0	22
Whitefish	0	21		1	11
Non-Resident					
Silers	0	0		0	0
Total					
Silers	0	0		0	22
Whitefish	0	21		1	11

D. R. Embody  
June 25, 1952

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
April, 1952

<u>Fishermen</u>	Sun. <u>April 6</u>	Sat. <u>April 19</u>	<u>April 1</u>	Weekdays <u>April 3</u>	<u>April 30</u>
Resident	17	9	4	No Fishing	No Fishing
Non-Resident	1	0	0		
Commercial	<u>0</u>	<u>0</u>	<u>0</u>		
Total	18	9	4		
<u>Hours Fished</u>					
Resident	51	25	16		
Non-Resident	<u>5</u>	<u>0</u>	<u>0</u>		
Total	56	25	16		
<u>Fish Caught</u>					
Resident					
Silvers	0	0	0		
Whitefish	12	0	0		
Perch	<u>8</u>	<u>20</u>	<u>80</u>		
Non-Resident					
Silvers	0	0	0		
Total					
Whitefish	12	0	0		
Perch	8	20	80		

D. R. Embody  
June 25, 1952

## LAKE PEND OREILLE CREEL CENSUS

## BAYVIEW

May, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>May 18</u>	<u>Sat.</u> <u>May 10</u>	<u>May 2</u>	<u>Weekdays</u> <u>May 6</u>	<u>May 29</u>
Resident	319	49	10	9	35
Non-Resident	241	81	3	2	51
Commercial	<u>10</u>	<u>9</u>	<u>0</u>	<u>1</u>	<u>3</u>
Total	570	139	13	12	89

Hours Fished

Resident	1,981.0	329.9	70.0	28.3	174.5
Non-Resident	1,544.5	528.2	19.0	14.0	262.1
Commercial	<u>90.0</u>	<u>80.0</u>	<u>0</u>	<u>12.5</u>	<u>24.0</u>
Total	3,615.5	938.1	89.0	54.8	460.6

Fish Caught

## Resident

Silvers	6,014	581	47	24	213
Cutthroat	0	1	0	2	3
Dolly Varden	2	0	0	0	2
Rainbow	2	0	0	0	0
Whitefish	1	0	0	0	0
Squawfish	4	0	0	0	2

## Non-Resident

Silvers	4,143	908	11	7	789
Cutthroat	0	5	0	0	2
Dolly Varden	8	4	0	0	2
Rainbow	1	1	0	0	0

## Commercial

Silvers	1,153	1,225	0	400	550
Dolly Varden	3	3	0	0	0

## Total

Silvers	11,310	2,714	58	431	1,552
Cutthroat	0	6	0	2	5
Dolly Varden	13	7	0	0	4
Rainbow	3	1	0	0	0
Whitefish	1	0	0	0	0
Squawfish	4	0	0	0	2

D. R. Embody  
January 21, 1953



LAKE PEND OREILLE CREEL CENSUS  
GARFIELD  
May, 1952

<u>Fishermen</u>	<u>Sun. May 11</u>	<u>Sat. May 24</u>	<u>May 19</u>	<u>Weekdays May 20</u>	<u>May 26</u>
Resident	48	48	3	11	23
Non-Resident	8	17	3	1	4
Commercial	<u>4</u>	<u>9</u>	<u>0</u>	<u>2</u>	<u>11</u>
Total	60	74	6	14	38
<u>Hours Fished</u>					
Resident	264.5	247.5	13.0	28.1	99.5
Non-Resident	19.0	72.0	15.0	4.0	18.0
Commercial	<u>97.0</u>	<u>62.5</u>	<u>0</u>	<u>6.0</u>	<u>83.0</u>
Total	380.5	382.0	28.0	38.1	200.5
<u>Fish Caught</u>					
Resident					
Silers	365	966	49	125	338
Cutthroat	2	4	0	0	3
Dolly Varden	3	4	0	0	1
Whitefish	5	6	0	0	0
Squawfish	1	0	0	0	0
Non-Resident					
Silers	32	311	88	16	6
Cutthroat	2	0	0	0	0
Dolly Varden	0	1	0	0	0
Rainbow	1	0	0	0	0
Commercial					
Silers	1,620	1,493	0	200	1,750
Total					
Silers	2,017	2,770	137	341	2,094
Cutthroat	4	4	0	0	3
Dolly Varden	3	5	0	0	1
Rainbow	1	0	0	0	0
Whitefish	5	6	0	0	0
Squawfish	1	0	0	0	0

D. R. Embody  
June 25, 1952

LAKE PEND OREILLE CREEL CENSUS  
HOPE  
May, 1952

<u>Fishermen</u>	<u>SUN. May 25</u>	<u>SAT. May 3</u>	<u>May 19</u>	<u>Weekdays May 23</u>	<u>May 28</u>
Resident	202	92	6	19	24
Non-Resident	23	27	5	6	3
Commercial	2	0	0	1	4
Total	227	119	11	26	31

Hours Fished

Resident	851.5	428.3	44.4	61.2	57.0
Non-Resident	97.5	154.7	34.0	23.4	9.0
Commercial	<u>12.0</u>	<u>0</u>	<u>0</u>	<u>5.0</u>	<u>20.0</u>
Total	961.0	583.0	78.4	89.6	86.0

Fish Caught

Resident

Silvers	635	46	161	139	112
Cutthroat	9	8	0	0	3
Dolly Varden	12	29	14	19	6
Rainbow	5	2	0	1	0
Whitefish	5	9	0	2	1
Perch	25	1	0	0	0
Crappie	1	0	0	0	0
Bass	1	0	0	0	0
Squawfish	30	20	0	0	7

Non-Resident

Silvers	137	14	286	47	11
Cutthroat	0	6	0	0	0
Dolly Varden	2	2	10	0	0
Rainbow	3	1	1	0	0
Whitefish	0	1	0	0	0

Commercial

Silvers	3	0	0	58	300
Whitefish	6	0	0	0	0

Total

Silvers	775	60	447	244	416
Cutthroat	9	14	0	0	3
Dolly Varden	14	31	24	19	6
Rainbow	8	3	1	1	0
Whitefish	11	10	0	2	1
Perch	25	1	0	0	0
Crappie	1	0	0	0	0
Bass	1	0	0	0	0
Squawfish	30	20	0	0	7

D. R. Embody  
June 25, 1952

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
May, 1952

<u>Fishermen</u>	<u>Sun. May 4</u>	<u>Sat. May 17</u>	<u>May 12</u>	<u>Weekdays May 13</u>	<u>May 27</u>
Resident	46	49	16	8	13
Non Resident	6	4	2	0	0
Commercial	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	52	53	18	8	13
<u>Hours Fished</u>					
Resident	208.1	171.5	80.0	26.0	143.3
Non-Resident	<u>25.0</u>	<u>25.0</u>	<u>12.0</u>	<u>0</u>	<u>0</u>
Total	233.1	196.5	92.0	26.0	143.3
<u>Fish Caught</u>					
Resident					
Silvers	1	77	27	0	11
Cutthroat	8	20	1	1	4
Dolly Varden	2	11	3	13	5
Rainbow	0	0	1	1	0
Whitefish	4	0	0	1	1
Perch	5	0	17	0	3
Squawfish	3	14	0	0	2
Non-Resident					
Silvers	11	21	12	0	0
Total					
Silvers	12	98	39	0	11
Cutthroat	8	20	1	1	14
Dolly Varden	2	11	3	13	5
Rainbow	0	0	1	1	0
Whitefish	4	0	0	1	1
Perch	5	0	17	0	3
Squawfish	3	14	0	0	2

D. R. Embody  
June 25, 1952

## LAKE PEND OREILLE CREEL CENSUS

BAYVIEW  
June, 1952

<u>Fishermen</u>	<u>Sun. June 15</u>	<u>Sat. June 14</u>	<u>June 20</u>	<u>Weekdays June 23</u>	<u>June 25</u>
Resident	1140	182	72	51	73
Non-Resident	201	2714	114	120	122
Commercial	<u>0</u>	<u>2</u>	<u>3</u>	<u>2</u>	<u>3</u>
Total	3141	458	189	173	198
<u>Hours Fished</u>					
Resident	661.1	1,001.9	505.1	312.1	440.1
Non-Resident	988.2	1,418.8	685.2	6214.2	694.3
Commercial	<u>0</u>	<u>14.0</u>	<u>7.5</u>	<u>18.0</u>	<u>18.0</u>
Total	1,6149.3	2,434.7	1,197.8	954.3	1,152.4
<u>Fish Caught</u>					
Resident					
Silvers	919	1,660	1,171	621	1,416
Cutthroat	8	8	11	22	10
Dolly Varden	3	0	16	3	0
Rainbow	0	0	1	0	1
Squawfish	0	0	2		1
Peanose	14	0	0	0	13
Non-Resident					
Silvers	1,5145	2,612	1,547	1,288	1,795
Cutthroat	35	55	22	29	26
Dolly Varden	8	5	2	8	0
Rainbow	1	1	1	2	2
Whitefish	2	0	0	0	0
Squawfish	1	1	2	3	0
Peanose	0	0	0	1	3
Commercial					
Silvers	0	83	90	30	130
Total					
Silvers	2,464	4,355	2,808	1,939	3,341
Cutthroat	43	63	33	51	36
Dolly Varden	11	5	18	11	0
Rainbow	1	1	2	2	3
Whitefish	2	0	0	0	0
Squawfish	1	1	14	3	1
Peanose	4	0	0	1	16

D. R. Embody January  
6, 1953

LAKE PEND OREILLE CREEL CENSUS  
GARFIELD  
June, 1952

<u>Fishermen</u>	<u>Sun. June 29</u>	<u>Sat. June 28</u>	<u>June 4</u>	<u>Weekdays June 11</u>	<u>June 27</u>
Resident	14	22	15	8	11
Non-Resident	40	31	5	18	14
Commercial	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>0</u>
Total	54	53	20	28	25
<u>Hours Fished</u>					
Resident	56.5	103.0	70.4	24.0	32.0
Non-Resident	160.0	163.0	33.0	69.6	63.0
Commercial	<u>0</u>	<u>0</u>	<u>0</u>	<u>8.0</u>	<u>0</u>
Total	216.5	266.0	103.4	101.6	95.0
<u>Fish Caught</u>					
Resident					
Silvers	97	184	133	58	114
Cutthroat	4	6	0	1	4
Dolly Varden	0	1	2	0	0
Rainbow	0	1	1	0	0
Non-Resident					
Silvers	248	292	69	216	147
Cutthroat	3	2	0	1	3
Dolly Varden	3	1	0	0	0
Squawfish	5	3	0	0	0
Commercial					
Silvers	0	0	0	20	0
Cutthroat	0	0	0	1	0
Total					
Silvers	345	476	202	294	261
Cutthroat	7	8	0	3	7
Dolly Varden	3	2	2	0	0
Rainbow	0	1	1	0	0
Squawfish	5	3	0	0	0

D. R. Embury  
January 2, 1953

## LAKE PEND OREILLE CREEL CENSUS

HOPE

June, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>June 1</u>	<u>Sat.</u> <u>June 21</u>	<u>June 12</u>	<u>Weekdays</u> <u>June 16</u>	<u>June 17</u>
Resident	116	14	2	0	42
Non-Resident	37	3	2	43	35
Commercial	<u>3</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	156	19	4	43	78
<u>Hours Fished</u>					
Resident	457.0	58.2	4.0	0	147.0
Non-Resident	181.2	18.0	8.0	73.5	173.9
Commercial	<u>21.0</u>	<u>12.0</u>	<u>0</u>	<u>0</u>	<u>6.0</u>
Total	659.2	88.2	12.0	73.5	326.9
<u>Fish Caught</u>					
Resident					
Silvers	529	44	7	0	212
Cutthroat	3	1	2	0	1
Dolly Varden	14	4	0	0	1
Rainbow	2	1	0	0	4
Whitefish	10	0	0	0	0
Perch	24	0	0	0	1
Squawfish	3	0	2	0	0
Peanose	0	0	0	0	14
Non-Resident					
Silvers	192	9	10	171	230
Cutthroat	2	0	0	1	2
Dolly Varden	3	0	0	3	0
Rainbow	0	0	0	3	2
Whitefish		0	0	0	0
Squawfish	3	0	0	2	1
Commercial					
Silvers	230	58	0	0	13
Whitefish	0	3	0	0	0
Perch	0	12	0	0	0
Total					
Silvers	951	111	17	171	455
Cutthroat	5	1	2	1	3
Dolly Varden	17	4	0	3	1
Rainbow	2	1	0	3	6
Whitefish	11	3	0	0	0
Perch	24	12	0	0	1
Squawfish	6	0	2	2	1
Peanose	0	0	0	0	14

D. R. Embody  
January 1, 1953

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
June, 1952

<u>Fishermen</u>	<u>Sun. June 8</u>	<u>Sat. June 7</u>	<u>June 5</u>	<u>Weekdays June 10</u>	<u>June 18</u>
Resident	50	23	21	6	26
Non-Resident	9	2	14	0	6
Total	59	25	35	6	32
<u>Hours Fished</u>					
Resident	205.0	99.0	60.4	12.0	51.4
Non-Resident	<u>48.0</u>	<u>6.0</u>	<u>43.6</u>	<u>0</u>	<u>14.0</u>
Total	253.0	105.0	104.0	12.0	65.4
<u>Fish Caught</u>					
Resident					
Silvers	149	30	88	0	36
Cutthroat	24	10	9	0	0
Dolly Varden	0	1	3	0	0
Rainbow	1	0	1	0	0
Whitefish	0	0	1	0	0
Perch	0	0	1	4	7
Bass	0	0	0	0	7
Squawfish	1	0	0	3	4
Peanose	0	0	0	0	3
Non-Resident					
Silvers	82	4	50	0	4
Cutthroat	1	2	4	0	0
Dolly Varden	0	0	1	0	0
Rainbow	0	0	1	0	0
Perch	0	1	0	0	0
Total					
Silvers	231	34	138	0	40
Cutthroat	25	12	13	0	0
Dolly	0	1	4	0	0
Rainbow	1	0	2	0	0
Whitefish	0	0	1	0	0
Perch	0	1	1	4	7
Bass	0	0	0	0	7
Squawfish	1	0	0	3	4
Peanose	0	0	0	0	3

D. R. Embody January  
21, 1953

## LAKE PEND OREILLE CREEL CENSUS

## BAYVIEW

July, 1952

<u>Fishermen</u>	<u>Sun. July 20</u>	<u>Sat. July 12</u>	<u>July 3</u>	<u>Weekdays July 11</u>	<u>July 15</u>
Resident	144	95	105	48	31
Non-Resident	241	213	109	71	86
Commercial	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>0</u>
Total	386	309	217	121	117
<u>Hours Fished</u>					
Resident	711.8	498.2	587.3	273.5	196.9
Non-Resident	1,231.4	1,268.9	712.4	408.0	524.1
Commercial	<u>4.0</u>	<u>6.0</u>	<u>3.0</u>	<u>8.0</u>	<u>0</u>
Total	1,947.2	1,773.1	1,302.7	689.5	721.0
<u>Fish Caught</u>					
Resident					
Silvers	396	441	1,141	298	151
Cutthroat	11	8	4	3	0
Dolly Varden	4	0	0	1	0
Rainbow	2	0	0	2	0
Perch	0	1	0	0	0
Squawfish	9	8	2	0	9
Peanose	0	4	0	0	0
Bluegill	0	1	0	0	0
Non-Resident					
Severs	831	1,326	1,442	382	655
Cutthroat	59	20	10	24	7
Dolly Varden	12	2	4	1	1
Rainbow	2	2	0	0	0
Whitefish	0	0	0	2	0
Perch	0	2	0	0	0
Squawfish	2	14	0	0	0
Peanose	0	4	1	0	0
Commercial					
Silvers	1	0	50	3	0
Cutthroat	0	1	0	0	0
Total					
Silvers	1,228	1,767	2,633	683	806
Cutthroat	70	29	14	27	7
Dolly Varden	16	2	4	2	1
Rainbow	4	2	0	2	0
Whitefish	0	0	0	2	0
Perch	0	3	0	0	0
Squawfish	11	22	2	0	9
Peanose	0	8	1	0	0
Bluegill	0	1	0	0	0

D. R. Embody  
January 6, 1953



## LAKE PEND OREILLE CREEL CENSUS

GARFIELD

July, 1952

<u>Fishermen</u>	Sun. <u>July 27</u>	Sat. <u>July 19</u>	<u>July 2</u>	Weekdays <u>July 24</u>	<u>July 25</u>
Resident	49	15	15	5	15
Non-Resident	79	45	21	13	30
Commercial	<u>0</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>4</u>
Total	128	60	40	18	49

Hours Fished

Resident	276.3	103.0	84.5	19.0	80.4
Non-Resident	487.9	194.7	110.0	56.0	148.2
Commercial	<u>0</u>	<u>0</u>	<u>32.0</u>	<u>0</u>	<u>31.0</u>
Total	764.2	297.7	226.5	75.0	259.6

Fish Caught

## Resident

Silvers	344	268	149	59	269
Cutthroat	0	0	0	0	2
Dolly Varden	1	0	0	0	0
Rainbow	1	0	0	0	2

## Non-Resident

Silvers	492	316	152	203	232
Cutthroat	22	2	7	4	8
Dolly Varden	1	4	6	0	0
Rainbow	1	0	1	0	2
Whitefish	0	0	1	0	0
Crappie	0	0	1	0	0
Peanose	0	0	1	0	0
Sunfish	0	0	1	0	0
Bluegill	1	0	0	0	0

## Commercial

Silvers	0	0	131	0	126
Rainbow	0	0	1	0	0

## Total

Silvers	836	584	432	262	627
Cutthroat	22	2	7	4	10
Dolly Varden	2	4	6	0	0
Rainbow	2	0	2	0	4
Whitefish	0	0	1	0	0
Crappie	0	0	1	0	0
Peanose	0	0	1	0	0
Sunfish	0	0	1	0	0
Bluegill	1	0	0	0	0

D. R. Embody  
January 2, 1953

## LAKE PEND OREILLE CREEL CENSUS

HOPE

July, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>July 13</u>	<u>Sat.</u> <u>July 26</u>	<u>July 8</u>	<u>Weekdays</u> <u>July 14</u>	<u>July 23</u>
Resident	124	45	44	16	31
Non-Resident	53	52	40	28	37
Commercial	<u>1</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>2</u>
Total	178	98	84	45	70
<u>Hours Fished</u>					
Resident	644.5	199.9	188.6	75.5	108.0
Non-Resident	270.5	256.9	208.7	123.0	192.0
Commercial	<u>3.0</u>	<u>5.0</u>	<u>0</u>	<u>4.0</u>	<u>12.0</u>
Total	918.0	461.8	397.3	202.5	312.0
<u>Fish Caught</u>					
Resident					
Sivers	705	240	326	109	119
Cutthroat	14	1	0	2	2
Rainbow	0	0	1	0	0
Whitefish	0	1	0	0	0
Perch	36	69	0	0	12
Crappie	0	1	0	0	0
Squawfish	2	5	3	0	5
Peanose	0	1	0	0	0
Sucker	0	1	0	0	0
Non-Resident					
Sivers	330	359	330	233	204
Cutthroat	0	3	4	4	2
Dolly Varden	0	6	1	0	0
Rainbow	0	1	0	0	1
Perch	13	0	4	0	2
Crappie	0	0	0	0	1
Squawfish	0	1	10	0	7
Peanose	1	0	0	0	0
Commercial					
Sivers	7	9	0	11	14
Total					
Sivers	1,042	608	656	353	337
Cutthroat	14	4	4	6	4
Dolly Varden	0	6	1	0	0
Rainbow	0	1	1	0	1
Whitefish	0	1	0	0	0
Perch	49	69	4	0	14
Crappie	0	1	0	0	1
Squawfish	2	6	13	0	12
Peanose	1	1	0	0	0
Sucker	0	1	0	0	0

D. R. Embury

January 1, 1953

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
July, 1952

<u>Fishermen</u>	<u>Sun. July 6</u>	<u>Sat. July 5</u>	<u>July 1</u>	<u>Weekdays July 10</u>	<u>July 29</u>
Resident	64	22	20	24	14
Non-Resident	<u>6</u>	<u>5</u>	<u>4</u>	<u>0</u>	<u>3</u>
Total	70	27	24	24	17
<u>Hours Fished</u>					
Resident	264.0	105.0	59.0	78.0	28.5
Non-Resident	<u>22.0</u>	<u>17.0</u>	<u>16.0</u>	<u>0</u>	<u>15.0</u>
Total	286.0	122.0	75.0	78.0	43.5
<u>Fish Caught</u>					
Resident					
Silvers	340	137	60	7	1
Cutthroat	33	3	3	20	13
Dolly Varden	1	0	0	5	0
Rainbow	2	0	1	0	1
Perch	15	0	0	1	22
Crappie	0	0	0	0	6
Squawfish	10	0	3	0	2
Non-Resident					
Silvers	41	7	17	0	5
Cutthroat	1	0	1	0	0
Dolly Varden	1	0	0	0	0
Total					
Silvers	381	144	77	47	6
Cutthroat	34	3	4	20	13
Dolly Varden	2	0	0	5	0
Rainbow	2	0	1	0	1
Perch	15	0	0	1	22
Crappie	0	0	0	0	6
Squawfish	10	0	3	0	2

D. R. Embody  
January 2, 1953

## LAKE PEND OREILLE CREEL CENSUS

## BAYVIEW

August, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>Aug. 3</u>	<u>Sat.</u> <u>Aug. 16</u>	<u>Aug. 5</u>	<u>Weekdays</u> <u>Aug. 15</u>	<u>Aug. 27</u>
Resident	83	48	37	12	29
Non-Resident	<u>175</u>	<u>140</u>	<u>35</u>	<u>51</u>	<u>118</u>
Total	258	188	72	63	147
<u>Hours Fished</u>					
Resident	509.0	239.5	206.8	53.0	135.0
Non-Resident	<u>1,143.0</u>	<u>751.7</u>	<u>205.8</u>	<u>300.3</u>	<u>743.0</u>
Total	1,652.0	991.2	412.6	353.3	878.0
<u>Fish Caught</u>					
Resident					
Silvers	252	278	110	48	163
Cutthroat	7	5	0	0	1
Whitefish	3	0	0	0	0
Perch	1	0	0	0	0
Crappie	7	0	0	0	0
Squawfish	5	2	0	0	1
Non-Resident					
Silvers	763	1,303	100	264	716
Cutthroat	35	40	1	8	10
Dolly Varden	4	1	0	0	2
Rainbow	3	4	1	0	0
Perch	0	5	0	0	2
Squawfish	3	0	2	0	1
Peanose	1	0	0	0	0
Total					
Silvers	1,015	1,581	210	312	879
Cutthroat	42	45	1	8	11
Dolly Varden	4	1	0	0	2
Rainbow	3	4	1	0	0
Whitefish	3	0	0	0	0
Perch	1	5	0	0	2
Crappie	7	0	0	0	0
Squawfish	8	2	2	0	2
Peanose	1	0	0	0	0

D. R. Embody  
January 21, 1953

LAKE PEND OREILLE CREEL CENSUS  
GARFIELD  
August, 1952

Fishermen	Sun. Aug. 10	Sat. Aug. 2	Aug. 1	Weekdays Aug. 18	Aug. 28
Resident	39	14	18	4	8
Non-Resident	67	37	28	9	24
Commercial	<u>1</u>	<u>1</u>	<u>4</u>	<u>1</u>	<u>4</u>
Total	107	52	50	14	36

Hours Fished

Resident	241.2	58.0	82.0	10.5	37.0
Non-Resident	321.8	214.0	112.5	30.0	121.0
Commercial	<u>4.0</u>	<u>8.0</u>	<u>16.0</u>	<u>2.0</u>	<u>25.0</u>
Total	567.0	280.0	210.5	42.5	183.0

Fish Caught

Resident					
Silvers	187	83	169	5	69
Cutthroat	2	2	0	0	0
Dolly Varden	0	1	0	0	0
Squawfish	0	0	1	0	0
Non-Resident					
Silvers	214	236	157	13	103
Cutthroat	9	8	0	0	7
Dolly Varden	3	1	0	0	0
Squawfish	1	3	0	0	0
Commercial					
Silvers	2	50	77	2	110
Total					
Silvers	403	369	403	20	282
Cutthroat	11	10	0	0	7
Dolly Varden	3	2	0	0	0
Squawfish	1	3	1	0	0

D. R. Embody  
January 2, 1953

LAKE PEND OREILLE CREEL CENSUS  
HOPE  
August, 1952

<u>Fishermen</u>	<u>Sun. Aug. 17</u>	<u>Sat. Aug. 30</u>	<u>Aug. 13</u>	<u>Weekdays Aug. 20</u>	<u>Aug. 22</u>
Resident	78	56	21	28	16
Non-Resident	55	38	40	34	32
Commercial	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>3</u>
Total	134	94	61	62	51
<u>Hours Fished</u>					
Resident	348.5	290.0	75.5	129.2	75.1
Non-Resident	302.0	219.5	176.5	186.0	155.6
Commercial	<u>2.0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>18.0</u>
Total	652.5	509.5	252.0	315.2	248.7
<u>Fish Caught</u>					
Resident					
Silvers	155	228	55	85	47
Cutthroat	16	2	1	7	0
Dolly Varden	8	6	0	0	0
Rainbow	3	0	0	1	0
Perch	37	4	0	14	0
Crappie	4	0	0	0	0
Bass	0	3	0	5	
Squawfish	0	1	1	0	0
Non-Resident					
Silvers	177	126	125	137	68
Cutthroat	2	1	2	4	0
Dolly Varden	5	0	0	1	2
Rainbow	1	1	0	0	0
Perch	23	0	21	1	13
Bass	0	0	0	0	1
Squawfish	1	0	0	1	1
Commercial					
Silvers	0	0	0	0	28
Total					
Silvers	332	354	180	222	143
Cutthroat	18	3	3	11	0
Dolly Varden	13	6	0	1	2
Rainbow	4	1	0	1	0
Perch	60	4	21	15	13
Crappie	4	0	0	0	0
Bass	0	3	0	5	1
Squawfish	1	1	1	1	1

D. R. Embody  
January 21, 1953

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
August, 1952

<u>Fishermen</u>	<u>Sun. Aug. 31</u>	<u>Sat. Aug. 9</u>	<u>Aug. 7</u>	<u>Weekdays Aug. 26</u>	<u>Aug. 29</u>
Resident	32	6	14	16	15
Non-Resident	<u>2</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>3</u>
Total	34	8	14	16	18
<u>HoursFished</u>					
Resident	103.5	22.0	45.0	49.0	56.5
Non-Resident	<u>4.0</u>	<u>8.0</u>	<u>0</u>	<u>0</u>	<u>13.0</u>
Total	107.5	30.0	45.0	49.0	69.5
<u>Fish Caught</u>					
Resident					
Silvers	12	3	3	4	13
Cutthroat	8	2	9	0	9
Dolly Varden	3	0	0	0	0
Rainbow	0	0	0	1	0
Whitefish	0	1	0	0	0
Perch	162	15	111	129	64
Crappie	11	0	10	0	1
Squawfish	2	3	2	0	0
Non-Resident					
Silvers	0	0	0	0	2
Cutthroat	0	1	0	0	0
Perch	0	0	0	0	8
Squawfish	0	3	0	0	0
Total					
Silvers	12	3	3	4	15
Cutthroat	8	3	9	0	9
Dolly Varden	3	0	0	0	0
Rainbow	0	0	0	1	0
Whitefish	0	1	0	0	0
Perch	162	15	111	129	72
Crappie	11	0	10	0	1
Squawfish	2	6	2	0	0

D. R. Embody  
January 21, 1953

LAKE PEND OREILLE CREEL CENSUS  
BAYVIEW  
September, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>Sept. 28</u>	<u>Sat.</u> <u>Sept. 20</u>	<u>Sept. 18</u>	<u>Weekdays</u> <u>Sept. 22</u>	<u>Sept. 30</u>
Resident	122	71	28	23	18
Non-Resident	286	242	48	47	57
Commercial	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	409	313	76	70	75

Hours Fished

Resident	725.9	428.5	185.5	150.6	101.0
Non-Resident	1,762.0	1,523.1	328.9	319.6	432.0
Commercial	<u>6.0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	2,493.9	1,951.6	514.4	470.2	533.0

Fish Caught

Resident					
Silvers	1,101	415	225	267	193
Cutthroat	3	0	0	0	1
Dolly Varden	2	1	0	0	0
Rainbow	0	1	0	0	0
Crappie	0	0	0	1	0
Squawfish	0	2	0	0	0
Non-Resident					
Silvers	3,124	1,803	493	451	884
Cutthroat	34	10	4	7	4
Dolly Varden	1	2	0	0	0
Rainbow	0	3	0	0	0
Commercial					
Silvers	20	0	0	0	0
Total					
Silvers	4,245	2,218	718	718	1,077
Cutthroat	37	10	4	7	5
Dolly Varden	3	3	0	0	0
Rainbow	0	4	0	0	0
Crappie	0	0	0	1	0
Squawfish	0	2	0	0	0

D. R. Embody  
January 21, 1953



LAKE PEND OREILLE CREEL CENSUS  
GARFIELD  
September. 1952

<u>Fishermen</u>	Sun. <u>Sept. 21</u>	Sat. <u>Sept. 13</u>	Sept. 5	Weekdays <u>Sept. 8</u>	<u>Sept. 26</u>
Resident	65	27	7	7	18
Non-Resident	86	70	18	9	29
Commercial	<u>1</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>0</u>
Total	152	97	27	17	47

Hours Fished

Resident	360.5	103.8	18,7	40.0	88.0
Non-Resident	523.0	350.0	102.5	61.0	141.0
Commercial	<u>9.0</u>	<u>0</u>	<u>13.0</u>	<u>8.0</u>	<u>0</u>
Total	892.5	453.8	134.2.	109.0	229.0

Fish Caught

Resident					
Silvers	404	106	63	98	131
Cutthroat	1	1	0	2	1
Dolly Varden	2	1	0	0	3
Rainbow	1	0	0	0	0
Squawfish	0	1	0	0	0
Non-Resident					
Silvers	720	508	143	108	215
Cutthroat	4	8	0	0	5
Dolly Varden	12	0	0	0	2
Rainbow	3	0	0	0	0
Commercial					
Silvers	50	0	91	30	0
Total					
Silvers	1,174	614	297	236	346
Cutthroat	5	9	0	2	6
Dolly Varden	14	1	0	0	5
Rainbow	4	0	0	0	0
Squawfish	0	1	0	0	0

D. R. Embody  
January 5, 1953

## LAKE PEND OREILLE CREEL CENSUS

HOPE

September, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>Sept. 14</u>	<u>Sat.</u> <u>Sept. 27</u>	<u>Sept. 9</u>	<u>Weekdays</u> <u>Sept. 11</u>	<u>Sept. 23</u>
Resident	76	29	9	9	25
Non-Resident	49	15	13	28	22
Commercial	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
Total	125	44	22	38	47
<u>Hours Fished</u>					
Resident	347.1	116.8	33.0	46.0	125.0
Non-Resident	268.0	68.5	62.0	161.1	148.8
Commercial	<u>0</u>	<u>0</u>	<u>0</u>	<u>3.0</u>	<u>0</u>
Total	615.1	183.3	95.0	190.1	273.8
<u>Fish Caught</u>					
Resident					
Silvers	362	80	39	75	131
Cutthroat	9	3	1	0	0
Dolly Varden	7	0	0	2	6
Rainbow	2	0	1	0	0
Perch	79	52	0	0	54
Crappie	0	1	0	0	0
Bass	2	1	0	0	0
Squawfish	2	3	0	0	2
Sunfish	2	0	0	0	0
Sucker	0	0	0	0	1
Non-Resident					
Silvers	312	30	72	152	196
Cutthroat	1	3	1	0	0
Dolly Varden	2	0	0	4	1
Whitefish	0	1	0	0	0
Perch	15	0	0	50	0
Bass	1	0		0	0
Squawfish	1	0	0	0	0
Commercial					
Dolly Varden	0	0	0	1	0
Total					
Silvers	676	110	111	227	327
Cutthroat	10	6	2	0	0
Dolly Varden	9	0	0	7	7
Rainbow	2	0	1	0	0
Whitefish	0	1	0	0	0
Perch	94	52	0	50	54
Crappie	0	1	0	0	0
Bass	3	1	0	0	0
Squawfish	3	3	0	0	2
Sunfish	2	0	0	0	0
Sucker	0	0	0	0	1

D. R. Embody  
January 2, 1953

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
September, 1952

<u>Fishermen</u>	<u>Sun. Sept. 7</u>	<u>Sat. Sept. 6</u>	<u>Sept. 4</u>	<u>weekdays Sept. 19</u>	<u>Sept. 25</u>
Resident	40	7	10	13	28
Non-Resident	<u>11</u>	<u>1</u>	<u>5</u>	<u>1</u>	<u>0</u>
Total	51	8	15	14	28

Hours Fished

Resident	166.1	25.0	35.0	47.9	80.0
Non-Resident	<u>39.6</u>	<u>2.0</u>	<u>16.0</u>	<u>4.0</u>	<u>0</u>
Total	205.7	27.0	51.0	51.9	80.0

Fish Caught

Resident					
Silvers	32	1	0	0	0
Cutthroat	8	0	4	2	2
Dolly Varden	0	0	2	0	0
Perch	178	14	106	78	289
Crappie	16	0	0	0	0
Bass	2	0	0	0	0
Squawfish	0	0	0	0	1
Sunfish	0	0	0	14	0
Peanose	0	0	0	7	0
Tench	0	0	0	2	0

Non-Resident					
Silvers	35	2	0	0	0
Perch	0	0	32	6	0
Sunfish	0	0	0	1	0
Sucker	4	0	0	0	0

Total					
Silvers	67	3	0	0	0
Cutthroats	8	0	4	2	2
Dolly Varden	0	0	2	0	0
Perch	178	14	138	84	289
Crappie	16	0	0	0	0
Bass	2	0	0	0	0
Squawfish	0	0	0	0	1
Sunfish	0	0	0	15	0
Peanose	0	0	0	7	0
Sucker	4	0	0	0	0
Tench	0	0	0	2	0

D. R. Embody  
January 2, 1953

## LAKE PEND OREILLE CREEL CENSUS

## B A Y V I E W

October, 1952

<u>Fishermen</u>	Sun. <u>Oct. 26</u>	Sat. <u>Oct. 25</u>	<u>Oct. 7</u>	Weekdays <u>Oct. 8</u>	<u>Oct. 22</u>
Resident	102	62	29	30	18
Non-Resident	<u>193</u>	<u>154</u>	<u>87</u>	<u>82</u>	<u>58</u>
Total	295	216	116	112	76
<u>Hours Fished</u>					
Resident	630.5	353.7	201.3	173.3	103.5
Non-Resident	<u>1,053.0</u>	<u>920.4</u>	<u>537.3</u>	<u>560.9</u>	<u>359.6</u>
Total	1,683.5	1,274.1	738.6	734.2	463.1
<u>Fish Caught</u>					
Resident					
Silvers	1,099	728	453	422	275
Cutthroat	4	1	1	0	0
Non-Resident					
Silvers	2,272	2,041	1,101	1,362	1,224
Cutthroat	7	4	8	0	0
Dolly Varden	0	2	0	0	2
Squawfish	0	0	0	2	0
Total					
Silvers	3,371	2,769	1,554	1,784	1,499
Cutthroat	11	5	9	0	0
Dolly Varden	0	2	0	0	2
Squawfish	0	0	0	2	0

D. R. Embody  
January 9, 1953

LAKE PEND OREILLE CREEL CENSUS  
GARFIELD  
October, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>Oct. 5</u>	<u>Sat.</u> <u>Oct. 18</u>	<u>Oct. 2</u>	<u>Weekdays</u> <u>Oct. 9</u>	<u>Oct. 16</u>
Resident	53	26	19	6	6
Non-Resident	<u>105</u>	<u>34</u>	<u>24</u>	<u>14</u>	<u>10</u>
Total	158	60	43	20	16
<u>Hours Fished</u>					
Resident	284.0	154..3	122.1	35.0	36.0
Non-Resident	<u>651.9</u>	<u>216.1</u>	<u>147.6</u>	<u>108.5</u>	<u>56.0</u>
Total	935.9	370.4	269.7	143.5	92.0
<u>Fish Caught</u>					
Resident					
Silvers	317	294	154	77	133
Cutthroat	2	1	0	7	0
Dolly Varden	2	8	5	0	1
Non-Resident					
Silvers	1,153	299	228	207	70
Cutthroat	2	0	1	0	0
Dolly Varden	7	1	1	0	0
Squawfish	2	0	0	0	0
Total					
Silvers	1,470	593	382	284	203
Cutthroat	4	1	1	7	0
Dolly Varden	9	9	6	0	1
Squawfish	2	0	0	0	0

D. R. Embody  
January 5, 1953

LAKE PEND OREILLE CREEL CENSUS  
HOPE  
October, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>Oct. 19</u>	<u>Sat.</u> <u>Oct. 4</u>	<u>Oct. 1</u>	<u>Weekdays</u> <u>Oct. 23</u>	<u>Oct. 28</u>
Resident	28	37	23	13	No Fishing
Non-Resident	<u>10</u>	<u>36</u>	<u>15</u>	<u>2</u>	
Total	38	73	38	15	

Hours Fished

Resident	110.0	156.0	112.0	49.0
Non-Resident	<u>50.0</u>	<u>198.0</u>	<u>88.5</u>	<u>8.0</u>
Total	160.0	352.0	200.5	57.0

Fish Caught

Resident				
Silvers	100	112	170	40
Cutthroat	0	7	0	0
Dolly Varden	4	5	0.	0
Perch	6	42	78	0
Bass	0	Q	0	1
Squawfish	0	1	0	0
Sunfish	0	0	6	0

Non-Resident				
Silvers	74	153	148	20
Cutthroat	2	1	2	0
Dolly Varden	0	0	5	0
Rainbow	0	0	1	0
Perch	0	8	18	0
Crappie	0	1	0	0
Bass	0	3	0	0
Sunfish	0	4	0	0

Total				
Silvers	174	265	318	60
Cutthroat	2	8	2	0
Dolly Varden	4	5	5	0
Rainbow	0	0	1	0
Perch	6	50	96	0
Crappie	0	1	0	0
Bass	0	3	0	1
Squawfish	0	1	0	0
Sunfish	0	4	6	0

D. R. Embody  
January 2, 1953

LAKE PEND OREILLE CREEL CENSUS  
SANDPOINT  
October, 1952

<u>Fishermen</u>	<u>Sun.</u> <u>Oct. 12</u>	<u>Sat.</u> <u>Oct. 11</u>	<u>Oct. 14</u>	<u>Weekdays</u> <u>Oct. 15</u>	<u>Oct. 17</u>
Resident	24	17	7	13	19
Non-Resident	<u>3</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	27	17	7	13	20
<u>Hours Fished</u>					
Resident	103.0	65.0	22.0	53.0	66.0
Non-Resident	<u>18.0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>3.0</u>
Total	121.0	65.0	22.0	53.0	69.0
<u>Fish Caught</u>					
Resident					
Silvers	3	16	0	0	10
Cutthroat	0	4	0	1	0
Dolly Varden	1	0	0	0	0
Perch	196	113	104	181	159
Crappie	0	2	0	0	137
Squawfish	1	0	0	0	0
Bluegill	0	0	4	0	0
Bullhead	0	0	2	0	0
Non-Resident					
Silvers	9	0	0	0	0
Total					
Silvers	12	16	0	0	10
Cutthroat	0	4	0	1	0
Dolly Varden	1	0	0	0	0
Porch	196	113	104	181	159
Crappie	0	2	0	0	137
Squawfish	1	0	0	0	0
Bluegill	0	0	4	0	0
Bluehead	0	0	2	0	0

D. R. Embody  
January 2, 1953

Appendix B. Levels and Temperatures (2 ft. below surface) of Water, Pend Oreille Lake, Idaho, 1952 (Readings were made at 7 a.m. daily at Kenmor Marina dock, Sandpoint, Idaho)

Day :	April :		May :		June :		July :		August :		September :		October :	
Month:	Level :	Temp. :	Level :	Temp. :	Level :	Temp. :	Level :	Temp. :	Level :	Temp. :	Level :	Temp. :	Level :	Temp. :
1			2056.7	40 F	2059.05	59 F	2061.32	59 F	2062.26	71 F			2060.45	62 F
2	2048.8		57.15	49	58.8	57	61.47	60	62.28	68	2061.68	66 F		
3			57.45	51	58.52	59	61.6	64			61.69		60.48	62
4					58.2	55			62.28	72	61.72	67	60.56	61
5	48.92		57.89	48	57.95	58	61.74	61	62.29	72	61.74	67		
6					57.8	62	61.84		62.3	72	61.79	66	60.68	60
7	49				57.83	59	61.9	61	62.39	71			60.77	
8			58.46	51			61.94	64	62.35	70	61.93	64		
9	49.5		58.58	50	58.04	62	61.91	68	62.4	69	61.99	63	60.90	60
10	49.53	39.5 F	58.68	54	58.11	62	61.78	70			62.10	63	60.96	
11		47			58.2	58	61.65	69	62.55	68	62.13	63	61.04	60
12	49.85	44	58.98	56	58.26	57	61.58	66	62.43	69	62.20	63		
13			59.1	56	58.52	55			62.43	70	62.11	62		59
14	50.12	49	59.3	52	58.95	58	61.8	66	62.18	69			61.11	58
15		42			59.5	57	61.9	67	62.13	68	61.92	61		58
16		46	59.65	55	59.78	56	62.01	66	62.1	68	61.77	62		57
17	50.62	50	59.84	56	59.44	55	62.05				61.62	62	60.98	57
18		52	60.05	56	60.1	56	62.08	66	62.1	68	61.50	63	60.80	56
19		51	60.27	56	60.17	60	62.1	68	62.04	67	61.41	63		
20	51.55	42	60.45	53	60.2	61			62.03	68	61.30	e8	60.48	66
21		48	60.62	51	60.26	60	62.22	65	61.84	68			60.3	57
22	52.3	52	60.78	55			62.38	64		68	61.78	63	60.19	56
23	52.68	52	60.88	56	60.42	58	62.19	66						
24	53.0	51	60.9	59	60.55	59	62.19	65					60.22	57
25	53.28	55	60.88	59	60.68	60		65		68	61.52	64	60.14	56
26	53.62	54	60.72	56	60.81	62	62.09	66	61.7	67				
27			60.43	58	60.95	64				68	61.48	63	60.88	55
28	54.78	49	60.11	59	61.05	65	62.11	68	61.64	67			60.68	54
29	55.48	48	59.85	58	61.1	63		69		68	61.42	62	60.45	54
30	56.1	50	59.6	57	61.2	55	62.18	70	61.65	66	61.38	62	60.24	54
31	59.35	59	59.35	59			62.22	72					59.02	54



# APPENDIX C

Climatological data. lake Pend Oreille, Idaho 1/

Month	' Temperature		,Precip. (in.)	'Depart. 'fromNor'	' No. of Days'	Number of Days		
	' Lv. Max.'	Av. Min.'				Cloudy	' Part. Cl.'	Clear
{1951)								
January	33.3	20.3	5.15	1.41	19	21	5	5
February	37.5	23.4	3.80	0.82	12	15	5	8
March	40.6	23.4	2.56	-0.12	13	15	11	5
April	60.7	30.3	0.46	-1.40	5		3	21
May	66.9	40.9	1.67	-0.35	13	11	6	14
June	71.7	43.5	1.80	-0.21	9	5	13	12
July	83.1	47.9	1.21	0.55	4	2	5	24
August	79.8	47.5	1.34	-0.41	6	9	7	15
September	68.6	40.7	2.14	0.41	9	10	3	17
October	50.9	36.9	9.59	6.62	20	21	5	5
November	41.6	30.5	3.70	-0.20	13	17	7	6
December	27.5	17.5	4.92	0.57	<u>11</u>	<u>18</u>	<u>12</u>	<u>1</u>
		(totals)	38.34	(✓8.51)	134	150	82	133
(1952)								
January	29.2	19.0	5.11	1.37	22	24	6	1
February	37.5	21.5	1.85	-1.13	11	16	6	7
March	43.2	25.9	1.53	-1.15	9	14	5	12
April	60.6	34.7	1.09	-0.77	5	8	5	17
May	67.6	41.2	0.65	-1.37	9	12	5	14
June	71.8	45.4	3.45	1.44	14	12	10	8
July	81.1	47.9	0.13	-0.53	5	5	13	13
August	81.3	46.5	0.29	-0.64	5	5	23	3
September	74.3	40.8	0.86	-0.87	5	4	17	9
October	64.1	30.9	0.48	-2.49	4	2	21	8
November	41.3	24.3	0.84	-3.06	9	12	10	8
December	34.2	26.0	<u>5.74</u>	<u>1.39</u>	<u>23</u>	<u>28</u>	<u>1</u>	<u>2</u>
			22.02	(-7.81)	121	131	127	108

1/ From Idaho State Experimental Farm at Sandpoint

